

CLAIMS:

1. **Operational amplifier comprising means for introducing an additional current to at least one internal node of said operational amplifier for reducing an output offset voltage of said operational amplifier.**
2. **Operational amplifier according to claim 1, wherein said means for introducing an additional current comprise a direct-current voltage source and a transconductor, said direct-current voltage source applying a voltage to said transconductor and said transconductor providing said additional current.**
3. **Operational amplifier according to claim 2, wherein said voltage which is applied by said direct-current voltage source to said transconductor can be varied.**
4. **Operational amplifier according to claim 2, wherein said transconductor is realized as differential stage.**

5. Operational amplifier according to claim 4, wherein said transconductor comprises a differential stage with a first, a second, a third and a fourth transistor, each of said first, second, third and fourth transistor having a source, a gate and a drain,
5 wherein a bias voltage is applied to said gates of said first and said second transistor, wherein said direct-current voltage source applies an additional voltage to said gate of said first transistor, wherein said sources of said first and said second transistor are connected to a supply voltage of said operational amplifier, wherein said sources of said third and said fourth transistor are connected to ground, wherein said drains of said first
10 and said second transistor are connected to said drains of said third and said fourth transistor, respectively, wherein said gate and said drain of said third transistor are short-circuited to each other, wherein said connection between said drains of said second and said fourth transistor are connected to an internal node of said operational amplifier for introducing an additional current to said operational amplifier.

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6. Operational amplifier according to claim 5, wherein applying an additional voltage to said gate of said first transistor comprises applying a differential voltage signal to said gates of said first transistor and said second transistor.

20 7. Operational amplifier according to claim 1, further comprising feedback means for detecting an output offset voltage of said operational amplifier and for controlling said means for introducing an additional current according to a detected offset.

25 8. Operational amplifier according to claim 1 comprising for its normal operation a differential input stage and a second stage connected to each other, wherein said means for introducing an additional current apply said additional current to a node of said differential input stage.

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9. Operational amplifier according to claim 8, wherein said differential input stage comprises a first, a second, a third and a fourth transistor, each of said first, second, third and fourth transistor having a source, a gate and a drain, wherein said
5 gates of said first and said second transistor are connected to different input terminals of said operational amplifier, wherein said sources of said first and said second transistor are connected to a supply voltage of said operational amplifier, wherein said sources of said third and said fourth transistor are connected to ground, wherein said drains of said first and said second transistor are connected to said drains of said third and said fourth
10 transistor, respectively, wherein said gate and said drain of said third transistor are short-circuited to each other, wherein said connection between said drains of said second and said fourth transistor is connected to said second stage, and wherein said means for introducing an additional current apply said additional current to said connection between said drains of said first and said third transistor.

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10. Method for reducing an output offset voltage of an operational amplifier, said method comprising introducing an additional current to at least one internal node of said operational amplifier.